

Appl. No. 10/675,230
Amdt Dated September 20, 2006
Reply to Office Action of June 20, 2006

Attorney Docket No. 81864.0024
Customer No.: 26021

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An R-T-B system rare earth permanent magnet, comprising a main phase consisting of an $R_2T_{14}B_1$ phase (wherein R represents one or more rare earth elements (provided that the rare earth elements include Y), and T represents at least one transition metal element containing, as a main constituent, Fe, or Fe and Co), and

a grain boundary phase containing a higher total amount of R than said main phase,

said R-T-B system rare earth permanent magnet being a sintered body having a composition consisting essentially of 28% to 33% by weight of R, 0.5% to 1.5% by weight of B, 0.03% to 0.3% by weight of Al, 0.3% or less (excluding O) by weight of Cu, 0.05% to 0.2% by weight of Zr, 4% or less by weight (excluding O) of Co, 0.2% or less by weight of oxygen, and the balance substantially being Fe,

said sintered body containing a region that is rich both Cu and Zr.

2. (Original) An R-T-B system rare earth permanent magnet according to claim 1, wherein said rich region exists in said grain boundary phase.

3. (Previously Presented) An R-T-B system rare earth permanent magnet according to claim 1 or 2, wherein said rich region is additionally rich in Co, or rich in Co and R,

and wherein with regard to the profile of a line analysis by EPMA, the peaks of Cu and Zr are coincident with the peak of Co, or with the peaks of Co and R, in said rich region.

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4. (Original) An R-T-B system rare earth permanent magnet according to claim 1, wherein the amount of oxygen contained in said sintered body is 2,000 ppm or less.

5. (Canceled)

6. (Previously Presented) An R-T-B system rare earth permanent magnet according to claim 1, wherein a coefficient of variation (CV value) showing the dispersion degree of Zr in said sintered body is 130 or less.

7. (Original) An R-T-B system rare earth permanent magnet according to claim 1, which satisfies the condition that, with regard to a residual magnetic flux density (Br) and a coercive force (HcJ), $Br + 0.1 \times HcJ$ (dimensionless) is 15.2 or greater.